

SECTION 1622 TEMPORARY SLOPE DRAINS

1622-1 DESCRIPTION

Furnish, place, maintain and remove temporary slope drains at the locations shown in the plans and at locations as directed. Work includes, but is not limited to, furnishing all pipe, anchor stakes and compacted earth; installation and removal of the slope drain; constructing the sump, earth shoulder berm and earth berm ditch block; constructing the stone inlet protection; constructing the outlet protection; and dressing, seeding and mulching the disturbed area after the slope drain and berm have been removed. Standard T-sections and elbows at the inlet of the slope drain pipe may be required as directed.

The actual conditions during the construction of the project will determine the quantity of temporary slope drains.

The quantity of temporary slope drains may be increased, decreased or eliminated entirely at the direction of the Engineer. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of the work.

1622-2 MATERIALS

Provide temporary slope drains, standard T-sections and elbows with pipe of sufficient size to carry the anticipated volume of water with a minimum diameter of 12". Provide plastic pipe and fittings meeting AASHTO M 294.

Refer to Division 10.

Item	Section
Sediment Control Stone, Standard Size No. 5 or 57	1005
Stone for Erosion Control, Class B	1042-1

1622-3 CONSTRUCTION METHODS

(A) Temporary Slope Drains

Install temporary slope drains in accordance with *Roadway Standard Drawings* No. 1622.01 during all phases of grading operations and adjust as needed to properly direct water flow.

Construct an earth berm at the top of cut and fill sections to direct water flow into temporary slope drains.

At locations of single direction water flow, locate temporary slope drain inlets in a sump along the earth berm. Construct an earth berm ditch block perpendicular to the direction of the water flow on the downstream side of the temporary slope drain. Construct ditch blocks of sufficient height to block the flow of water but at no higher elevation than the earth shoulder berm. Install an elbow at inlet of slope drain pipe as directed.

At locations of multi direction flow, install a sump on both sides of the slope drain inlet. Construct inlet protection with sediment control stone and Class B stone in accordance with *Roadway Standard Drawings* No. 1622.01. Install a standard T-section at the slope drain inlet as directed.

Join multiple pipe sections using an approved pipe coupling. Anchor slope drains in accordance with the *Roadway Standard Drawings* No. 1622.01. Extend slope drain to bottom of slope and erosion control measures.

Section 1630

(B) Outlet Protection at Temporary Slope Drain

Protect outlet locations subject to scour by placing Class B stone or a silt detention device. A special stilling basin may also be used as outlet protection in accordance with Section 1639 and as directed. Construct outlet protection devices as shown in the plans and at other locations as directed.

1622-4 MEASUREMENT AND PAYMENT

Temporary Slope Drains will be measured and paid in linear feet of pipe, including inlets, tees and elbows, measured along the invert of the temporary slope drain, completed and accepted.

Sediment Control Stone will be measured and paid in accordance with Section 1610.

Stone for Erosion Control, Class ____ will be measured and paid in accordance with Section 1610.

Silt Excavation will be measured and paid in accordance with Section 1630.

No payment will be made for temporary slope drains, that were required due to the Contractor's negligence, carelessness or failure to install permanent controls as a part of the work scheduled.

Temporary Slope Drains will be considered minor items. Article 104-5, pertaining to revised contract unit prices for overrunning minor items, will not apply to these items.

Payment will be made under:

Pay Item	Pay Unit
Temporary Slope Drains	Linear Foot

SECTION 1630 CONSTRUCTION AND MAINTENANCE OF SILT DETENTION DEVICES

1630-1 DESCRIPTION

Excavate and satisfactorily dispose of all materials excavated in the construction, cleaning out and maintenance of silt basins, silt ditches and other silt detention devices. Work includes, but is not limited to, excavation, shaping of the basins or ditches, cleaning out and maintaining the basins or ditches, disposal of all materials and backfilling.

1630-2 CONSTRUCTION METHODS

(A) General

Excavate silt basins, silt ditches or other silt detention devices to the dimensions and at the locations shown in the plans or as directed for the purpose of siltation control with non-vertical side slopes and not greater than 1.5:1 slope. Clean out silt detention devices, when so directed, to maintain their effectiveness. Backfill and shape for seeding and mulching silt detention basins and silt ditches before completion of the project unless otherwise directed.

(B) Disposal of Materials

Use all excavated materials in the construction of roadway embankments except where otherwise directed. Dispose of materials, which are not used in the construction of roadway embankments in waste areas in accordance with Section 802.